

CHUPAKOV, M.I. I cand Took Sel.

USSR/Chemical Technology - Chemical Products and Their Application. Wood Chemistry
Products. Cellulose and Its Manufacture. Paper, I-23

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63355

Author: Chudakov, M. I., Sergeyev, A. P.

Institution: None

Title: New Method of Cooking Control

Original

Periodical: Gidroliznaya i lesokhim. prom-st', 1955, No 2, 19

Abstract: A new method is proposed for control of discharge of hydrolyzate (I) with the withdrawal of varying volume of I. In the last portions of discharge I concentration of reducing substances (RS) is determined by rapid refractometric method. Percolation is discontinued at a concentration RS < 1.5%. Withdrawal of varying amounts of I made it possible to decrease duration of percolation on the average by 28 minutes and the volume of hydrolyzate obtained per cooking by 3.2 m³. Average yield of RS per cooking has been decreased from 1.99 to 1.97 t

but the sugar concentration of I increased from 3.09 to 3.22% and

Card 1/2

USSR/Chemical Technology - Chemical Products and Their Application. Wood Chemistry Products. Cellulose and Its Manufacture. Paper, I-23

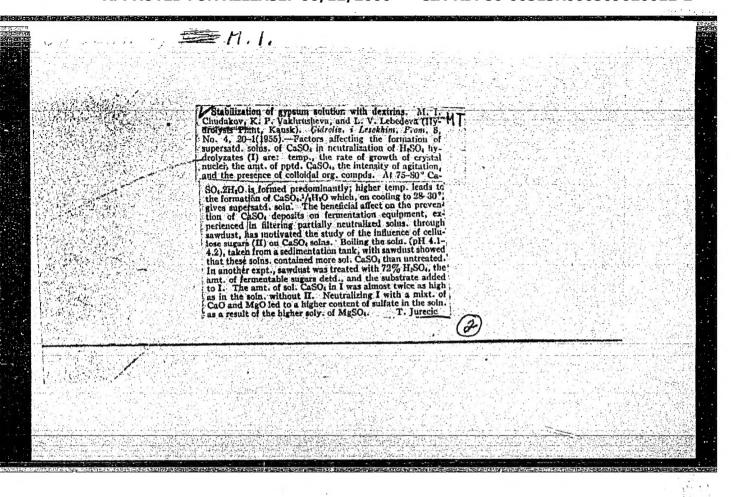
Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63355

Abstract: alcohol concentration in the fermented liquor from 1.30 to 1.32%.

Mean daily alcohol production has been increased by 6.5% over that

of preceding month.

Card 2/2



CHUDAKOV, M.I

USSR/Chemical Technology - Chemical Products and Their Application. Wood Chemistry
Products. Cellulose and Its Manufacture. Paper, I-23

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63363

Author: Sukhanovskiy, S. I., Chudakov, M. I., Yakovenko, A. Z.

Institution: None

Title: Production of Active Hydrolysis Lignin for the Rubber Industry

Original

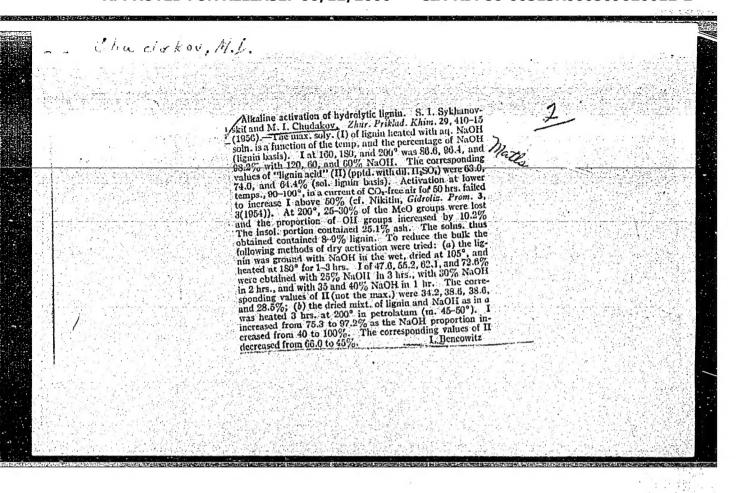
Periodical: Gidroliznaya i lesokhim. prom-st', 1956, No 3, 13-14

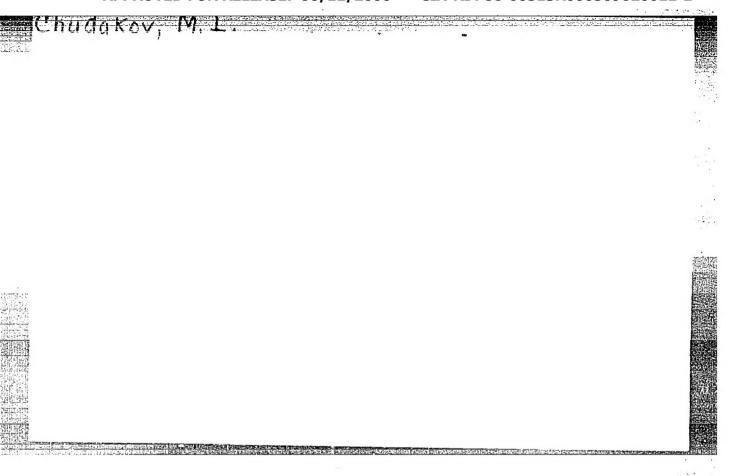
Abstract: Maximum yield of activated lignin with least expenditure of alkali

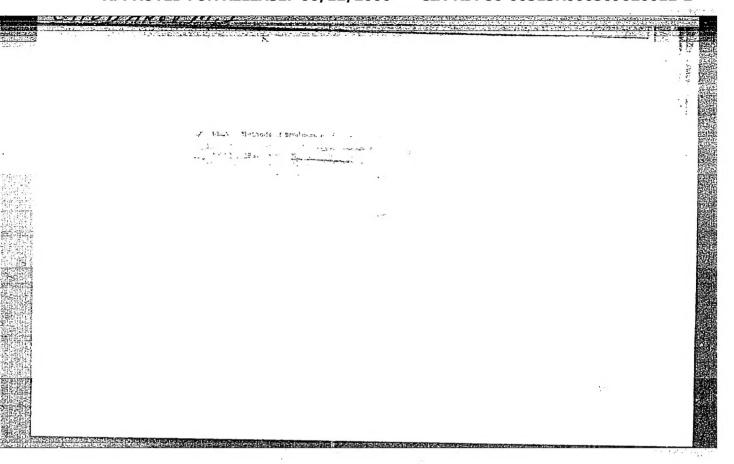
can be attained on using NaOH in an amount of 30% of the amount of initial lignin and carrying out the cooking at 180° for 4 hours. On decrease of the modulus from 10 to 6.2 and the amount of NaOH from 40 to 25% of the weight of hydrolysis lignin the yield of activated lignin decreases slightly and its concentration in the solution increases from 7 to 11%. At the same time concentration of the residual free NaOH decreases by more than 2 times, and its expenditure

per one kg of activated lignin to 0.33-0.35 kg.

Card 1/1







CHUDAKOV MIX

CHUDAKOV, H.I., kand.khim.nauk; WIKITIW, W.I.; SUKHAWOVSKIY, S.I., kand.tekhn.nauk

Modern ideas on the chemistry and structure of lignin. Khim.nauka i prom. 2 no.4:408-415 57. (MIRA 10:11)

1. Chlen-korrespondent AN SSSR (for Nikitin).
(Lignin)

SURHANOVSKIY, S.I., kand.tekhn.nauk; GHUDAKOV, M.I., kand.khim.nauk

Utilization of hydrolytic lignin. Khim.nauka i prom. 2 no.4:444-450
(57)
(Lignin)

CHUUHKOV, M.T.

USSE/Chemical Technology - Chemical Products and Their

Application. Wood Chemistry Products, Hydrolysis Industry I-9

Abs Jour Ref Zhur - Khimiya, No 1, 1958, 2676

Author : Krasnova, A.P., Parshina, E.A., Sukhanovskiy, S.I.,

Chudakov, M.I. Inst

Title : Preparation of Omalic Acid from Hydrolysis Lignin.

: Zh. prikl. khimii, 1957, No 5, 802-806 Orig Pub

Abstract : It is shown sulfuric acid hydrolysate and hydrochloric acid lignin (L) can be produced 35 and 49%, respectively, of oxalic acid (I), by means of an oxidation of the L with HNO3, specific gravity 1.38. The reaction is conducted with care: L is added into the acid in small increments, the reaction mixture is kept under observation until the exothermic reaction is completed (cooling of the

reaction vessel with cold water or ice). The crystallization is carried out in two steps (I and II).

Card 1/2

USSR/Chemical Technology - Chemical Products and Their I-9
Application. Wood Chemistry Products. Hydrolysis Industry
Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2676

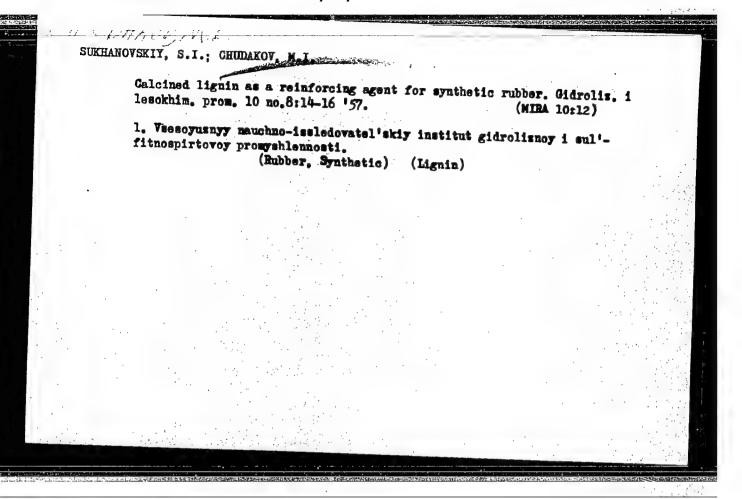
Consumption of HNO_3 , to obtain 1 kg, varies with different samples of L within the range of 10.3-14.5 kg. Preparation of I is more promising from hydrochloric acid L.

Card 2/2

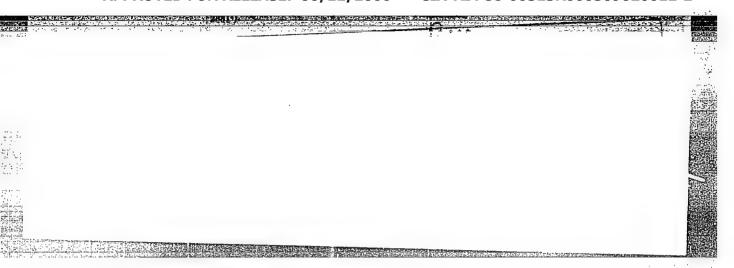
CHUDAKOV, M.I., kand, khim, nauk,

"Fundamentals of the chemistry and chemical technology of wood"
by Wilhelm Sandermann, Reviewed by M.I. Chudakov, Gidrolis, 1
prom. 10 no.6:31-32 '57'. (MRA 10:12)

1. Vessoyusnyy manchno-iseledovatel skiy institut gidrolisnoy i
sul'fitno-spirtovoy promyshlennosti;
(Wood—Chemistry)
(Sandermann, Wilhelm)



CHUBACOV, M. 1.



KRASNOVA, A.P.; SUKHANOVSKIY, S.I.; CHUDAKOV, M.I.

Nature of hydrolytic lignin. Zhur.prikl.khim. 30 no.12:1827-1831

D *57.

(Lignin)

(Lignin)

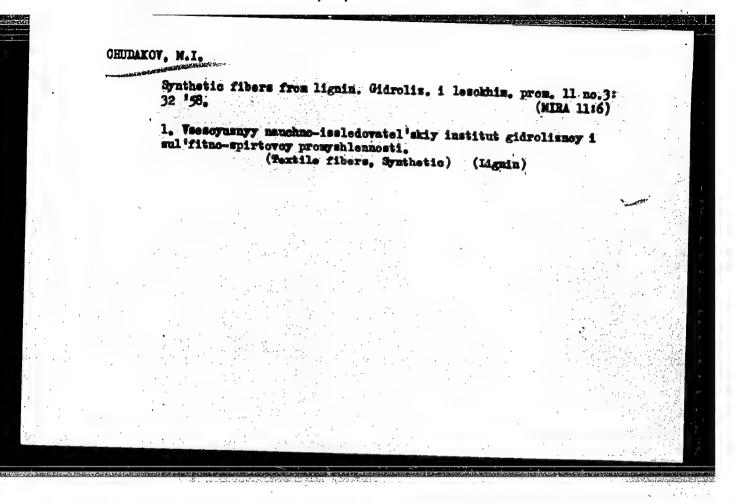
SURHANOVSKIY, S.I., kandidat tekhnicheskikh nauk; CHUDAKOV, H.I., kandidat khimicheskikh nauk.

Use of desulfemented lignim. 12 no.2:8-9,7 '57.

(RIZA 10:5)

1.Vsesoyunnyy namohno-issledovatel'akiy institut gidrolismoy i sul'fitne-spirtovoy promphlemosti.

(idgnin)



Granulation of hydrolytic lignin. Gidrolis. i lesokhim.pron. ll
no.7:12-13 '58. (MRA 11:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrolisnoy i
sul'fitno-apirtovoy promyahlennosti.
(Lignin) (Carbon, Activated)

GHUDAKOV, M. I., kand., khim., nauk

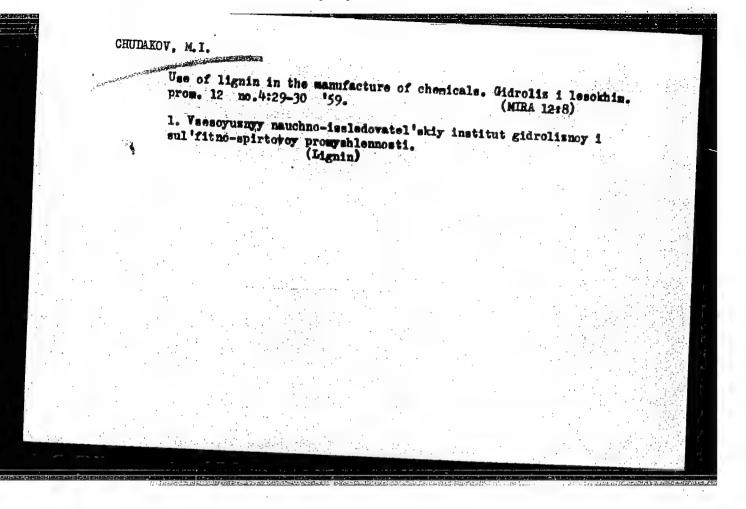
Acid condensation of ligain. Bum. prem. 33 no. 7:9-11 J1 '58.

(MIRA 11:7)

1. Vecsoyuznyy nauchne-isoledevatel'skiy institut gidrelisnoy
i sul'fitme-spirtorey promyshlennosti.

(Mignin)

(Condensation preducts' (Chemistry))



OKUN', M.G.; SUKHANOVSKIY, S.I.; CHUDAKOV, M.I.; KRASHOVA, A.P.

Rapid method for determining lignin. Gidroliz i lesokhim. prom. 12 no.5:10-11 '59. (MIRA 12:10)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut gidrolisnoy i sul'fitno-spirtovoy promyshlennosti.

(Lignin)

5(3)

SOV/60-32-3-25/43

AUTHORS:

Chudakov, M.I., Sukhanovskiy, S.I., Akimova, M.P.

TITLE:

On the Benzoid Structure of Hydrolytic Lignin (O benzoidnoy strukture gidroliznogo lignina)

PERIODICAL:

Zhurnel prikladnoy khimii, 1959, Vol XXXII, Nr 3, pp 608-613

ABSTRACT:

The changes of the structure of technical lignins occurring during chemical and technical treatment are investigated here. Hydrolytic lignin gives 2.4% of benzenepolycarboxylic acids on oxidation. It has a benzoid structure which may be realkaline activation of hydrolytic benzene in aqueous solution at 180°C produces ligninic acids, in which the benzoid structures comprise 8%. These acids give 25.2% of polycarboxylic acids when oxidized, among them also mellitic acid. They are substance in lignin is arranged in a regular order by alkaline activation. It is characterized by the condensation of carbon into plane hexagonal lattices.

Card 1/2

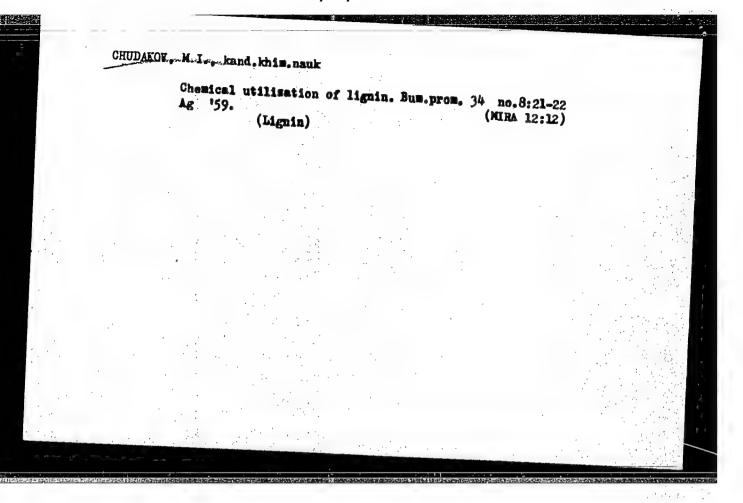
On the Benzoid Structure of Hydrolytic Lignin

There is 1 table and 13 references, 5 of which ere Soviet,
4 English, 2 German, 1 Canadian, and 1 American.

ASSOCIATION:
Vsesoyuznyy nauchno-issledovatel'skiy institut gldroliznoy i sul'fitnospirtovoy promyshlennosti (All-Union Scientific-Industry)

SUZMITTED:
May 8, 1958

Card 2/2



OKUN', M.G.; SKRYNNIK, I.V.; SUKHANOVSKIY, S.I.; CHUDAKOV, M.I.

Use of hydrolytic lignin in the manufacture of plastics. Gidrolis.i lesokhim.prom. 13 no.3:14-16 60.

(NIRA 13:7)

1. Mauchno-issledovatel skiy institut gidroliznoy i sul fitnospirtovoy promyshlennosti. (Lignin) (Plastics)

CHUDAKOV, M. I.; GEORGIYEVSKAYA, G.D.

Determination of phenolic hydroxyl groups in commercial ligning by the potentiometric method. Zhur.anal.khim. 15 no.3:347-352 My-Je *60. (MIRA 13:7)

1. All-Union Scientific Research Institute of Hydrolysis and Sulphite-Alcohol Industry, Leningrad. (Lignin) (Hydroxyl group)

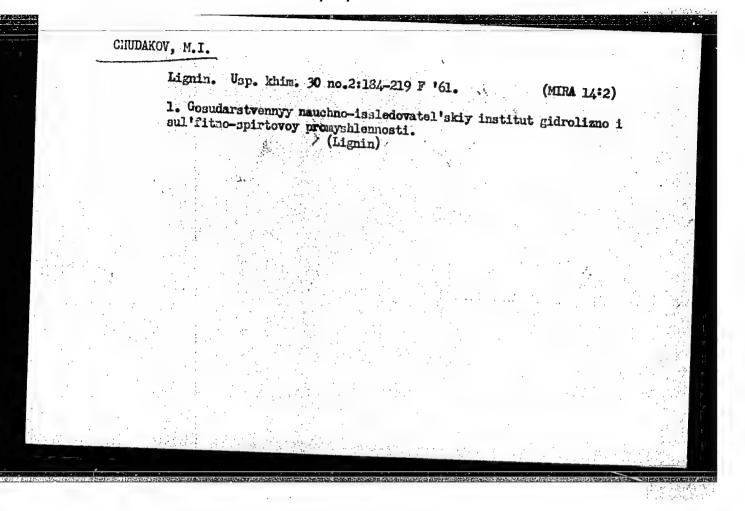
CHUDAKOV, M.I.; SUKHANOVSKIY, S.I.; LEVIT, R.M.; SOROKIN, Ya.Z.

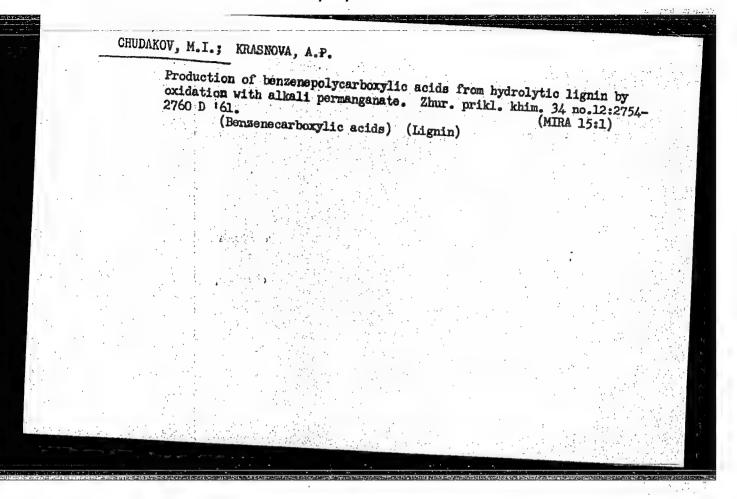
Goal from hydrolytic lignin as a starting material in the production of carbon disulfide. Gidorlis. i lesokhim. prom. [MIRA 14:1]

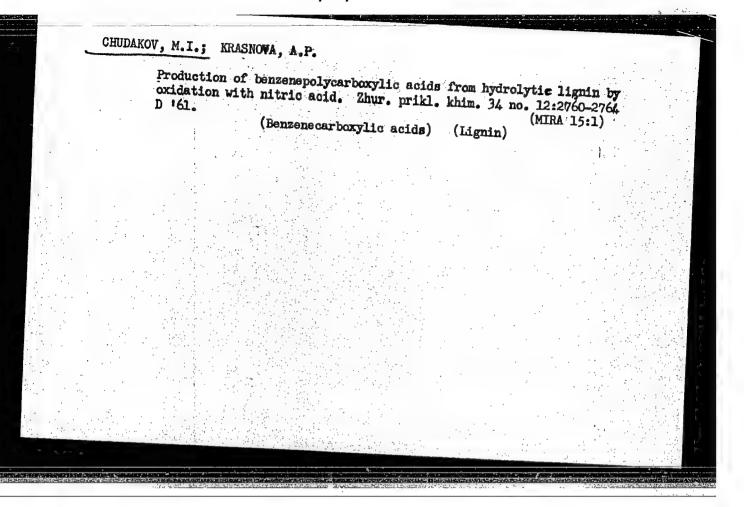
1. Mauchno-issledovatel'akiy institut gidrolisnoy i sul'fitno-spirtovoy promyshlemnosti (for Chudakov, Sukhanovskiy).

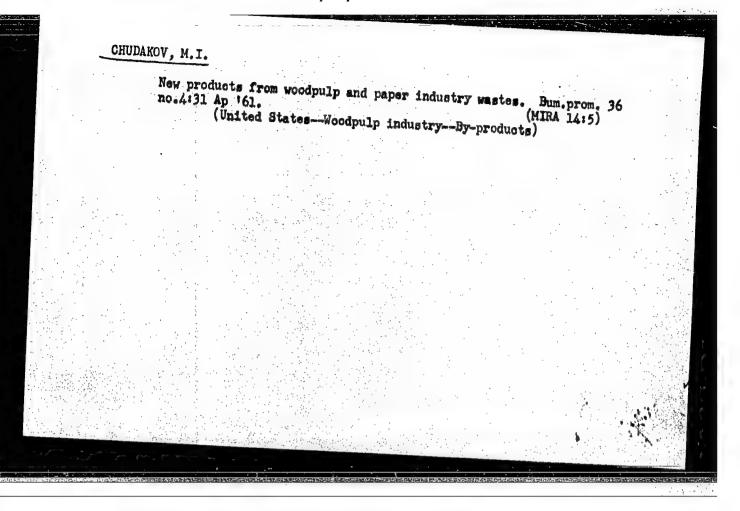
2. Vsesoyusnyy nauchno-issledovatel'akiy institut iskusstvennego volokna (for Lavit, Sorokin).

(Carbon disulfide) (Lignin)





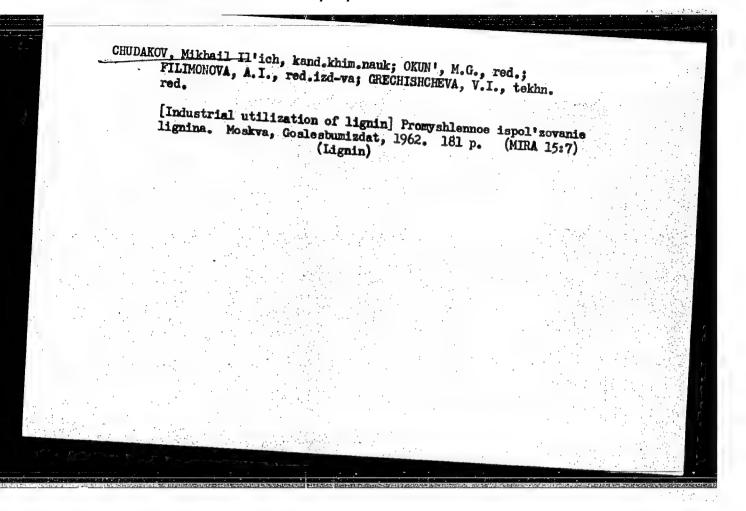


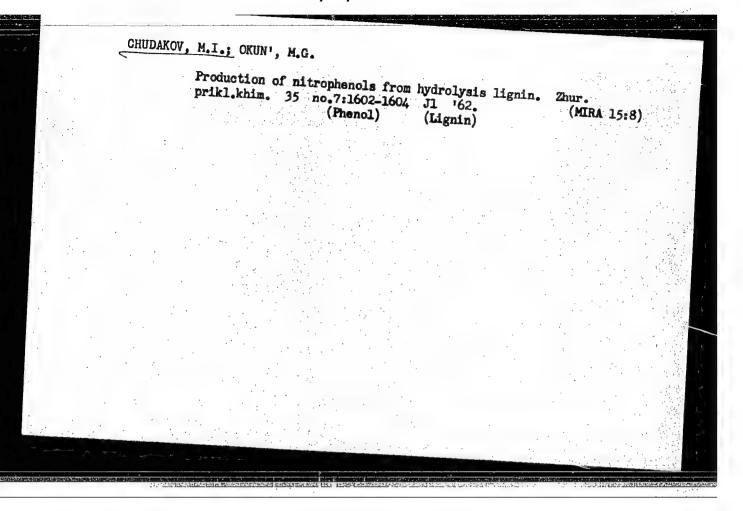


CHUDAKOV, M.I.

Secondary aromatic polymuclear structure of lignin. Dokl.AN SSSR 137 no.6:1389-1392 Ap '61. (MIRA 14:4)

1. Predstavleno akademikom A.A.Balandinym. (Lignin)



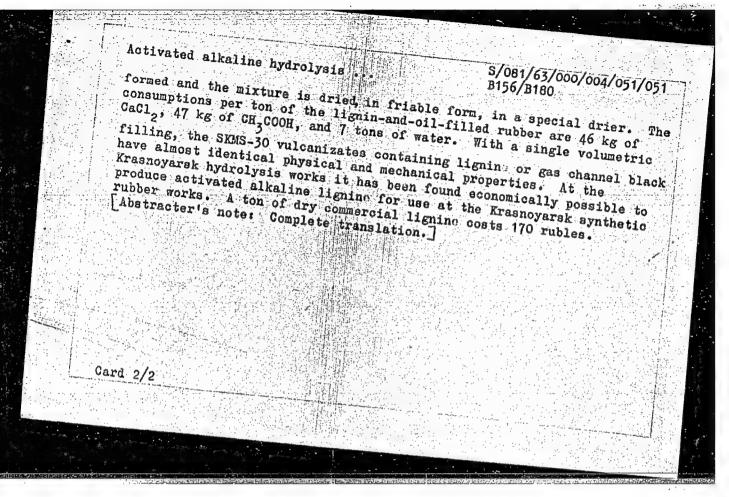


AUTHOR: Chudakov, M. I.

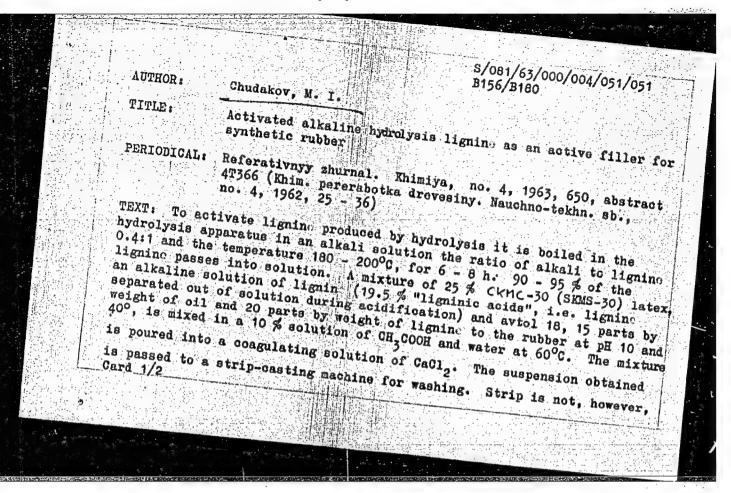
TITLE: Activated alkaling hydrolysis ligning as an active filler for synthetic rubber

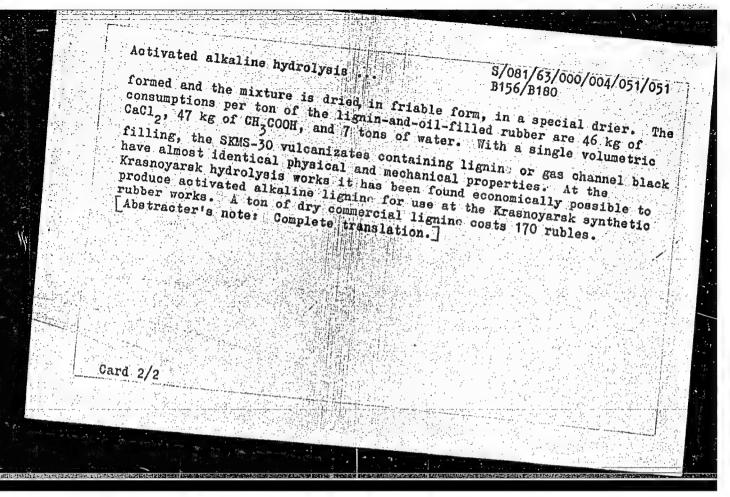
PERIODICAL: Referativnyy zhurnal. Khimiya, no. 4, 1963, 650, abstract no. 4, 1962, 25. - 36)

TEXT: To activate ligning produced by hydrolysis it is boiled in the hydrolysis apparatus in an alkali solution the ratio of alkali to ligning ligning passes into solution. A mixture of 25 % CKMC-30 (SKMS-30) latex asparated out of solution. A mixture of 25 % CKMC-30 (SKMS-30) latex weight of oil and 20 parts by weight of ligning to the rubber at pR 10 and is poured into a coagulating solution of CH_COOH and water at 60°C. The mixture is passed to a strip-casting machine for washing. Strip is not, however,



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L 33032-66 EWT(1) RO ACC NR. AP6024160 SOURCE CODE: UR/0020/65/164/003/0598/ AUTHOR: Chudakov, M. I.; Antipova, A. V.; Polyak, A. B.; Raskin, M. N. ORG: All-Union Scientific Research Institute of the Hydrolysis and Alcoholic Sulfite Industry (Vsesoyuznyy nauchno-issledovatel skiy institut gidroliznoy i sul fitno-TITLE: Obtaining quinonic nitropolycarboxylic acids - plant growth stimulants SOURCE: AN SSSR. Doklady, v. 164, no. 3, 1965, 598-601 TOPIC TAGS: hydrolysis, plant growth, organic nitro compound, molecular weight, quinone, chemical reactor, polysaccharide, solvent extraction, chemical precipitation, polycarboxylic acid, biochemistry, oxidation ABSTRACT: The authors have developed and applied a method of fractional, gradual oxidation and hydrolysis of condensed lignin with nitric acid in an aqueous medium at 1000. The gradual introduction of the oxidant in the reaction mixture leads to a minimum breakdown in the quinonic acids formed and permits the process to be cerried out for a small consumption of exident. As the object of the investigation, different kinds of technical ligning subjected to prolonged condensation treatment were used. Lignin (lignin content, according to Koenig, was 85 - 90%, OCH3 == 4.7 - 5%) in the amount of 500 grams in 5 liters of water == was placed into a stainless steel reactor fitted with cooling coils, a reflux condenser, a mixer, and an electric heating attachment. The suspension of lignin in water Wes heated to 1000. After the mixer had stirred the mixture gradually 0915 1748

ACC NR: AP6024160

for six hours, nitric scid (1.35) was added in the amount of 0.75 kg (based on the calculation for the monohydrate), with a gradual supply of heated air into lution of gaseous products and in some cases required cooling. At the completion free of the reaction, the solution containing only traces of nitric acid was filtered and 2.8 - 3. In order to 10.15 kg (based on the calcium carbonate to

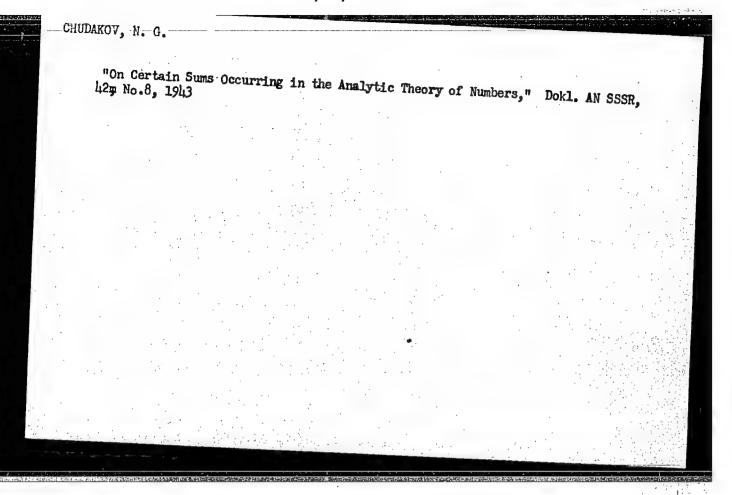
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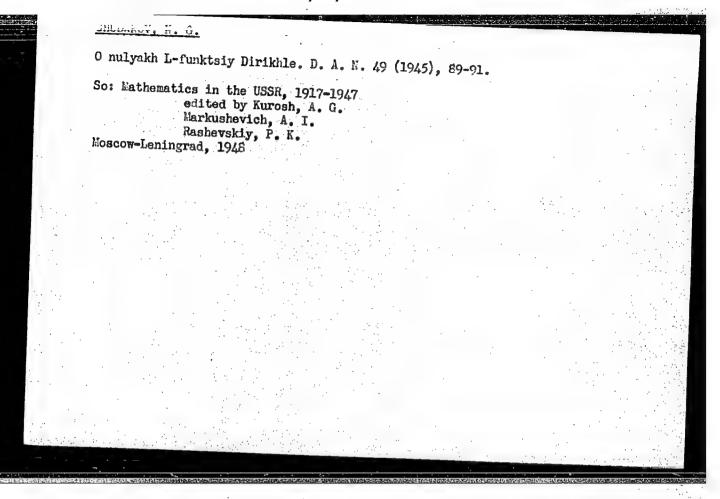
pH 2.8 - 3. In order to isolate the quinonic acids, the solution was further extracted with methylethylketone. The extract was dried with sodium sulfate. After separation of a larger part of the solvent in vacuum, a thick syrup was poured into dry petroleum ether. The precipitating dark-red oil was separated from the other, dried in a vacuum drier at 40° and in a vacuum dessicator over alkali, and then over phosphoric anhydride for a period of a week. The yield was powder dissolved readily in water and in polar organic solvents.

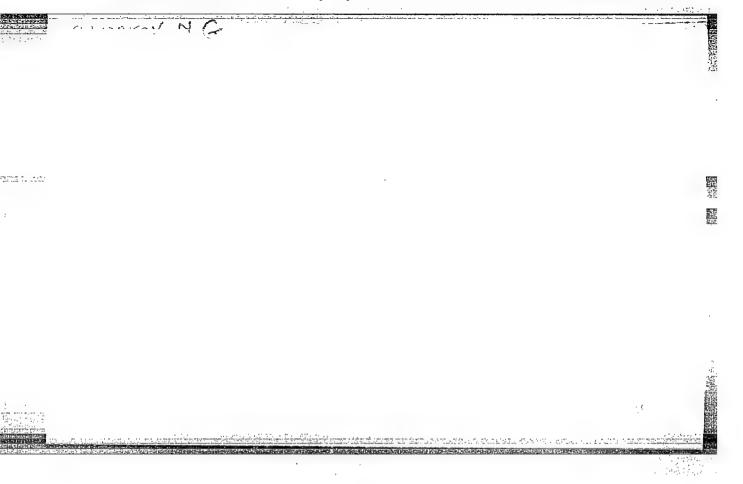
In investigating its properties, the fraction dissolvents.

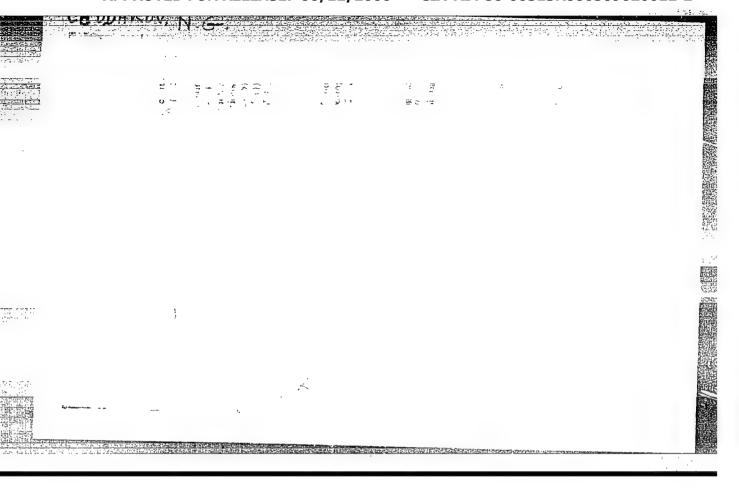
dioxane was used. The product was titrated potentiometrically in an aqueous solution as a strong acid. Its molecular weight (cryoscopically determined) in dioxane was 286. The gram-equivalent was 132. The content of carboxylic groups in the molecule is approximately two. Elemental composition (in \$) was selected to the selected composition (in \$) was selected composition (in \$) was selected to the selected composition (in \$) was s

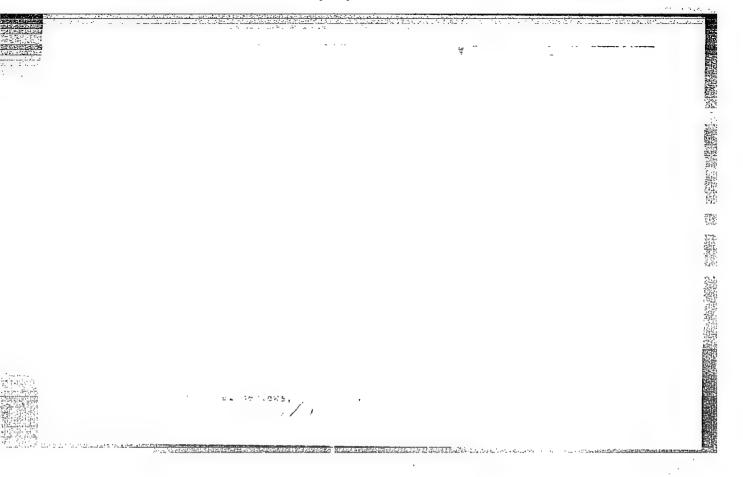
Upon comparison of experimental and calculated data (elemental composition, molecular weight, gram-equivalent, and infrared spectra), it is assumed that the products obtained by the authors can be classed as quinomic nitropolycarboxylically. This paper was presented by Academician A. L. Kursanov on 23 November 1964. SUB CODE: 07, 06 / SUBM DATE: 19Nov64. / ORIG REF: 006 / OTH REF: 006





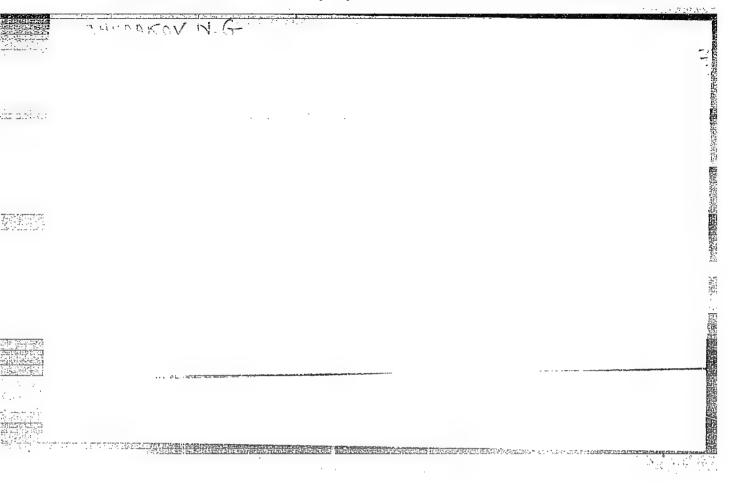


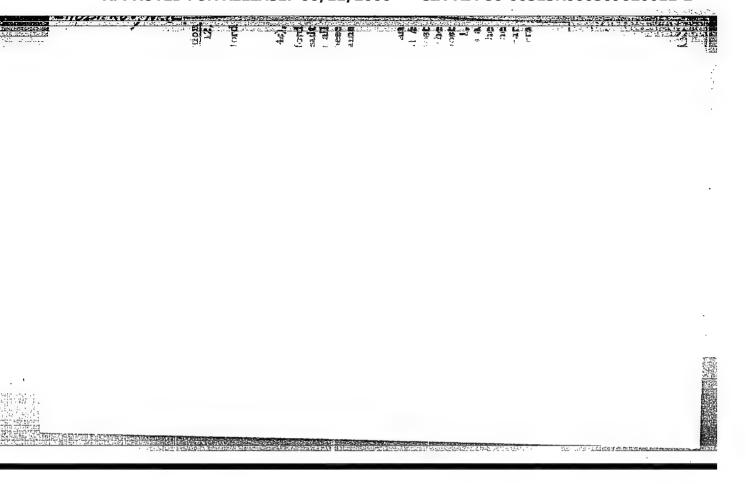


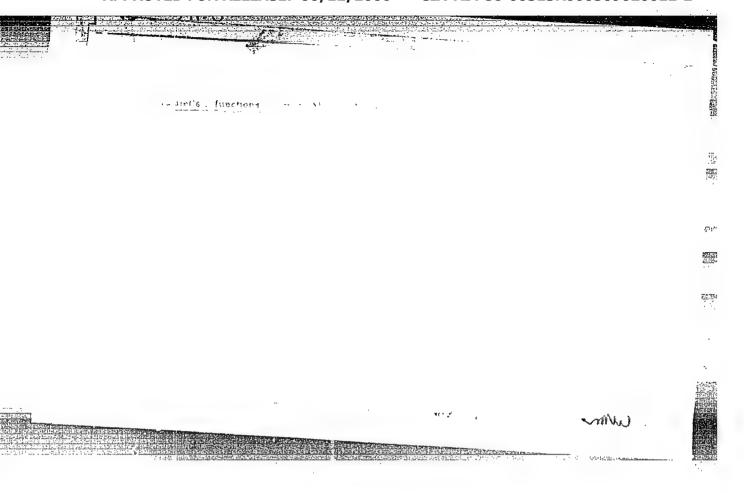


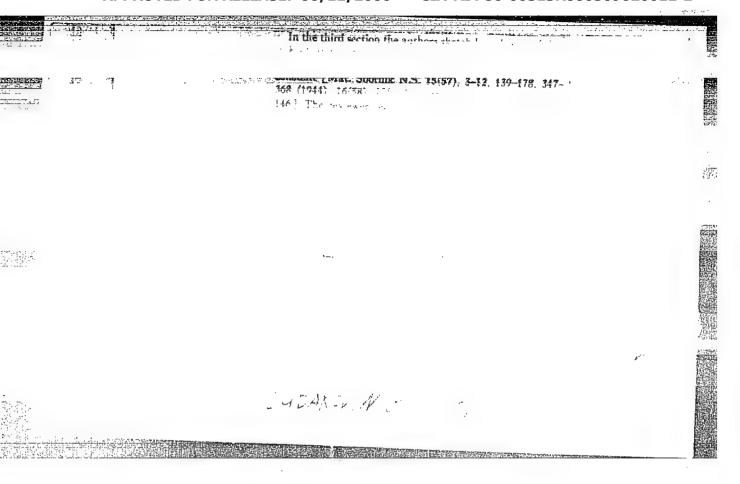
- 1. CHUDAKOV, Professor N. G.
- 2. USSR (600)
- 4. Physics and Mathematics
- 7. Introduction to the Theory of Dirichlet's L-Functions, Professor N.G. Chudakov. (Moscow, State Technical Press, 1947). Reviewed by Yu. V. Linnik, Sov. Kniga, No. 4, 1948.

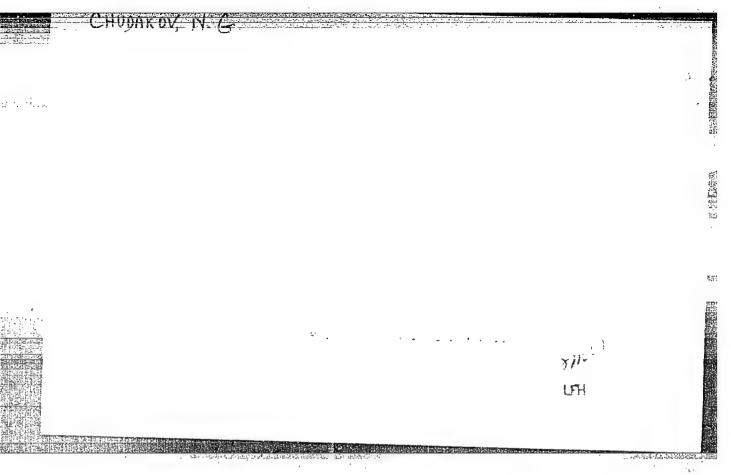
9. Report U-3081, 16 Jan. 1953, Unclassified.

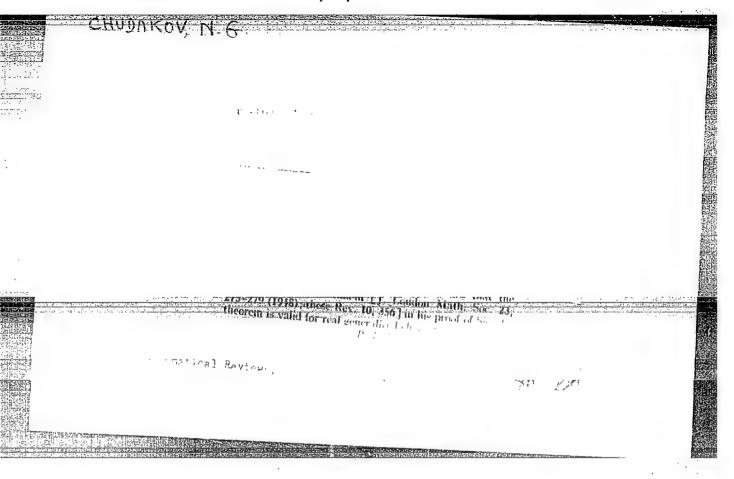


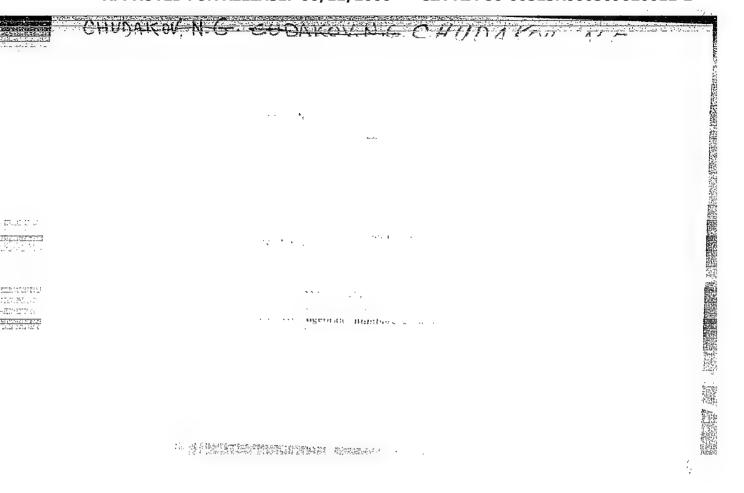












CHUDAKOV, N. G.

Theory of Numbers

Alegbraic independence of values of an exponential function. Ukr. mat. zhur. 3, No. 2,

SO: Monthly List of Russian Accessions, Library of Congress,

June

1953, Uncl

CHUDAKOV, N. G.

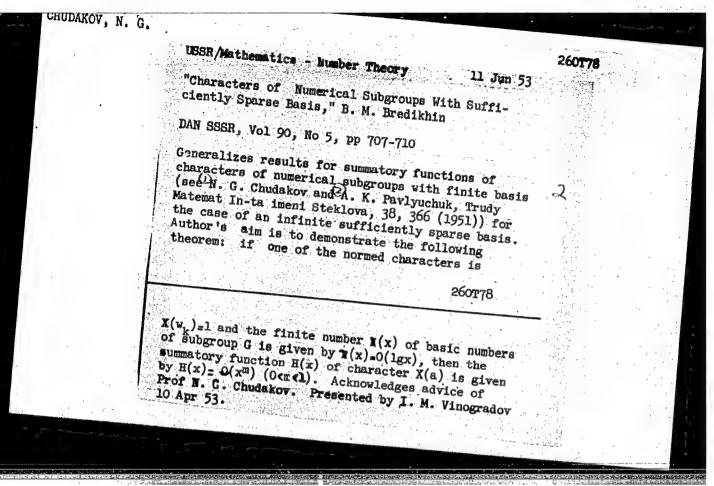
Mathematical Reviews Vol. 15 No. 2 Feb. 1954 Number Theory Cudakov, N. G., and Paviyučuk, A. K. On summation functions of characters of numerical groups with a finite basis. Trudy Mat. Inst. Steklov., v. 38, pp. 366-381. Izdat. Akad. Nauk SSSR, Moscow, 1951. (Russian) 20 rubles.

Suppose & is a multiplicative group of positive algebraic numbers with a finite basis $\omega_1, \omega_2, \cdots, \omega_p$, where we assume $\omega_k > 1$ for $k = 1, 2, \dots, p$. Let \mathfrak{S} be the semigroup generated by $\omega_1, \omega_2, \cdots, \omega_p$. Suppose χ is a (not necessarily bounded) character of \mathfrak{G} , that is a homomorphism of \mathfrak{G} into the multiplicative group of non-zero complex numbers. Let H be the function defined on the non-negative real numbers by the formula $H(x) = \sum_{\alpha \in B_{\alpha} \leq S \in P_{\alpha}} \chi(\alpha)$. Suppose $\sigma_0 = \max_{1 \le k \le p} (\log |\chi(\omega_k)|) / (\log \omega_k)$ and q is the number of values of k for which $\sigma_0 = (\log |\chi(\omega_k)|)/(\log \omega_k)$. Then the authors prove the following assertions about the behavior of H(x) as $\alpha \to \infty$. (1) If $\sigma_0 < 0$, then H(x) is bounded. (2) If of H(x) as $a \mapsto \omega$. (1) $H(a) \setminus 0$, then H(x) is bounded. (2) H(a) = 0, q = 1, and $\chi(\omega_k) \neq 1$ for all k, then H(x) is bounded. (3) If $\sigma_0 = 0$ and $\chi(\omega_k) = 1$ for some k, then $H(x) = \Omega(x)$. (4) If $\sigma_0 = 0$ and $q \geq 2$, then $H(x) = \Omega((\log \log \log x)^{\frac{1}{2}})$. (5) If $\sigma_0 > 0$, then $H(x) = \Omega(x^{-1}e^{ixx})$. Although (1) and (2) are almost $\sigma_0 = 0$. trivial, the proofs of (3), (4), and (5) require delicate methods from analytic number theory due to Vinogradov, Gelfond, and Linnik. A particular case of the above is a result of Cudakov and Linnik [Doklady Akad. Nauk SSSR (N.S.) 74, 193-196 (1950); these Rev. 12, 393] to the effect that if I is a multiplicative subgroup of the positive rationals generated by a finite set \$ of prime numbers and if x is a bounded character of \mathfrak{G} , then H(x) is bounded if and only if $\mathfrak P$ contains exactly one prime number and χ is not the principal character of U. P. T. Bateman.

"APPROVED FOR RELEASE: 06/12/2000

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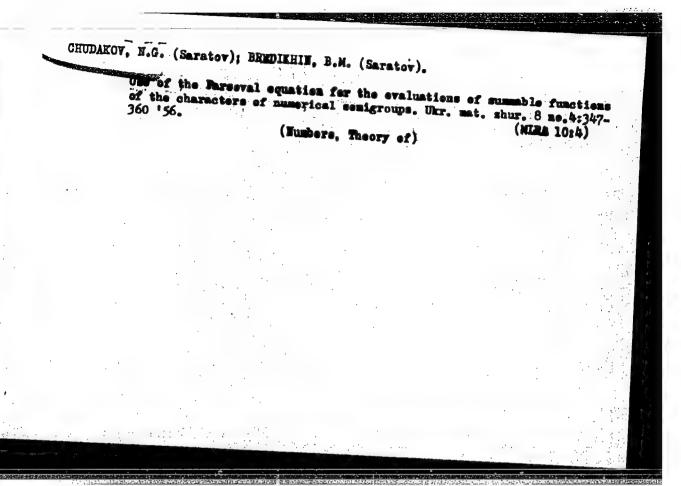
DANDVAA" Cudakov, N. G. On a class of completely multiplicative functions. Uspehi Matem. Nauk (N.S.) 8, no. 3(55), Metal 149-150 (1953). (Russian) Suppose t is a non-zero real number and x is a nonprincipal residue-character, and let & be the function defined on the positive integers by the equality $h(n) = \chi(n)n^{ij}$. The author proves that h is not a residue-character but nevertheless shares with residue-characters the property that $\sum_{n \le n} h(n)$ is bounded. In the terminology of earlier papers [Cudakov and Rodosskii, Doklady Akad. Nauk. Mathematical Reviews SSSR (N.S.) 73, 1137-1139 (1950); these Rev. 12, 393; Cudakov and Linnik, ibid. 74, 193-196 (1950); these Rev. 12, 393; Kubilyus and Linnik, Trudy Mat. Inst. Steklov. 38, 170-172 (1951); these Rev. 15, 103], this shows that the function h is a generalized character which is not a residue-character and which has an infinite hose. It is incharacter and which has an infinite hose. Vol. 15 No. 4 Apr. 1954 Number Theory character and which has an infinite basis. It is unknown whether or not there exist other generalized characters with these two properties. P. T. Baleman (Urbana, Ill.)

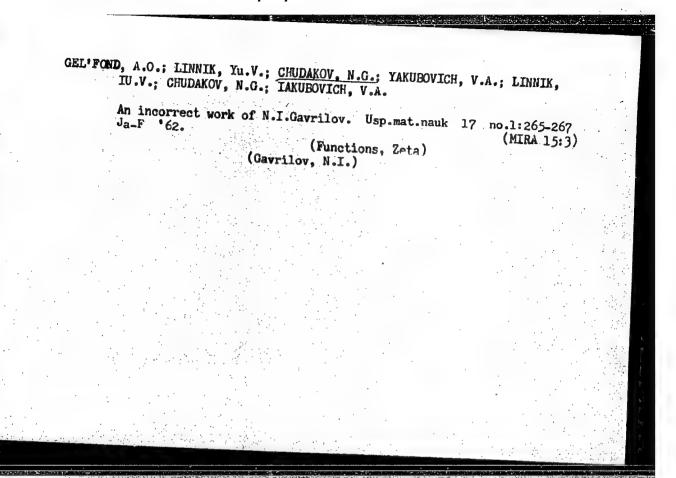


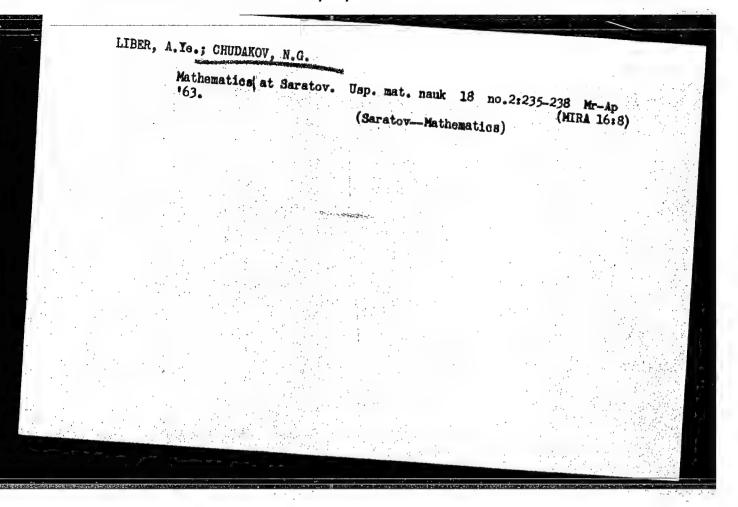
Chudakov, N.G.

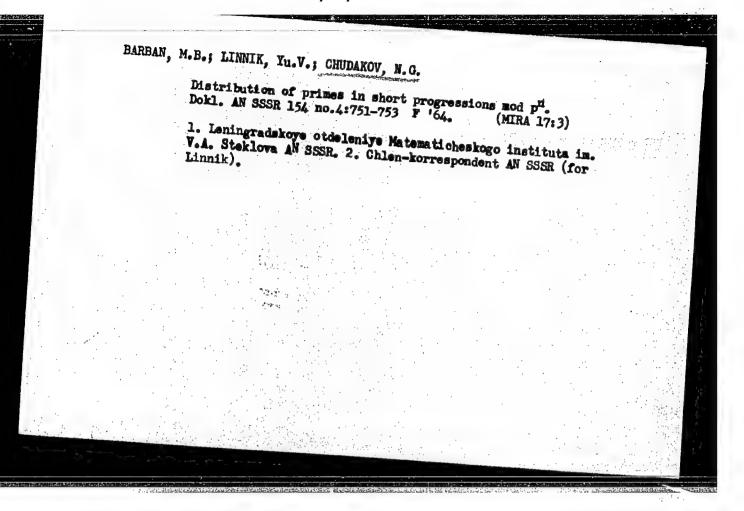
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Freyman, G. A. (Kazan'). On one Elementary Method of the Theory of Numbers and the Theory of Probabilities.	14
Chudakov, N. G. (Saratov). Classification of Characters of Number Semigroups.	15-16
Mention is made of Bredikhin, V. N. and Bronshteyn, B. S.	
Shidlovskiy, A. B. (Moscow). One one Class of Transcendent.	15-16
There are 4 references, 2 of which are USSR, 1 English, and 1 German.	
Algebra Section	17-41

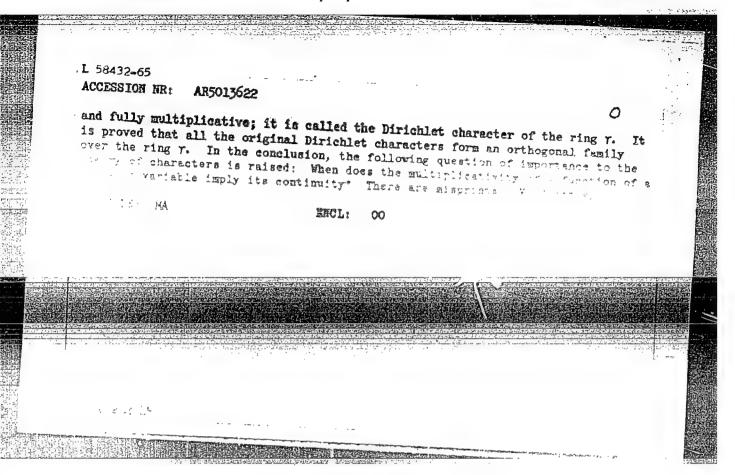




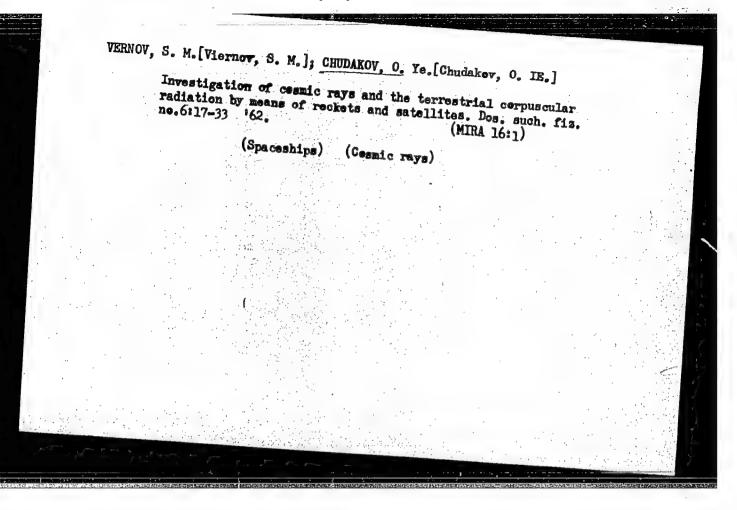




SOURCE: Ref. sh. Matematike, Abs. 1463 AUTHOR: Chudakov, N. G. TITLE: On periodic numerical functions CITED SOURCE: Sb. Nekotoryye vopr. teorii poley. Saratov, Saratovsk. un-t, 1964, TOPIC TAGS: numerical function, periodic function, ring, polyadic number, continuation Translation: Let Z be a ring of integer rational numbers and r a ring of polyadic numbers (RZhMat 1961, 10A157). It is proved that each finite-value periodic function specified on Z can be continued over the entire ring r, this continued one- continuous everywhere; conversely, each finite-value function and is con- let character is continuable on the ring r, the continued function being continuous				And the second s	
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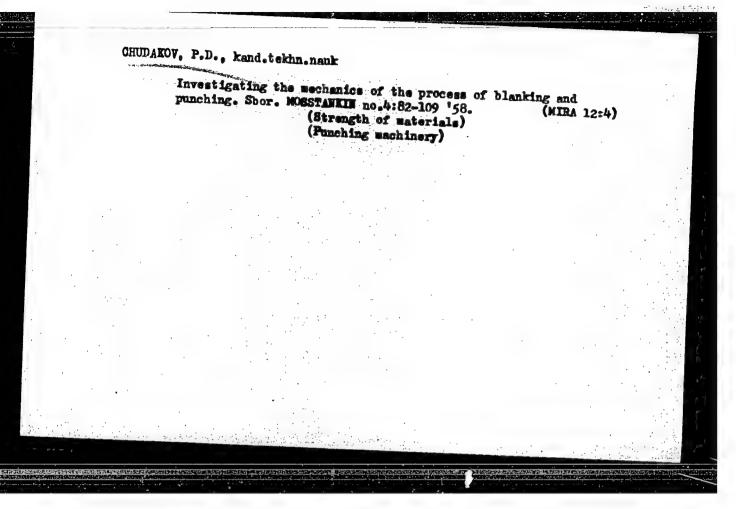
L 57851-65 ENT(1)/ENT(m)/T/ENP(t)/EEC(b)-2/ENP(b)/ENA(c) JD/GG IJP(c) ACCESSION NR: AR4049420 \$/0275/64/000/009/B008/B009 621.315.592:548.552:546.289 SOURCE: Ref. zh. Elektronika i yeye primeneniye. Syodnyy tom, Aus. 9854 AUTHOR: Distler, G. I.; Korchazhkina, R. L.; Chudakov, V. S. TITLE: Investigation of the effect of growing Ge single crystals upon their CITED SOURCE: Sb. Metod fotoelektr. infrakrasn. polyariskopii i defektoskopii poluprovodnik. materialov. M., 1962, 28-35 TOPIC TAGS: birefringence, germanium crystal, crystal growing TRANSLATION: By means of a PIK-1 photoelectric polariscope ($\lambda = 2.25$ mm), the effect of thermal conditions during Ge crystal growing upon the birefringence patterns caused by mechanical stresses was studied. Specimens up to 40 mm diameter were cut at right angles to the growing axis from the crystals obtained by the Ch. Kural'skiy-method growing and by some melting. The birefringence distributions the dislocation-density distributions determined from etching patterns. the ted that, under industrial conditions, the method of birefringence study implines less labor than the method of dislocation study. Bibliography: 4 titles. SUB CODE: 55 ENCL: 00



CHUDAKOV, P. D.

CHUDAKOV, P. D. -- "Investigation of Some Problems in the Process of Notching and Piercing." Min Higher Education USSR. Mescow Machine Tool and Tool Inst imeni I. V. Stalin. Moscow, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

So: Knizhnaya Letopis', No 1, 1956



P.3.

PHASE I BOOK EXPLOITATION

sov/3718

Eksperimental'nyy nauchno-issledovatel'skiy institut kuznechno-pressovogo mashinostroyeniya

Issledovaniya i raschety mashin kuznechno-shtampovochhogo proizvodstva (Studies and Calculations of Forging and Stamping Machinery) Moscow, Mashgiz, 1959.
233 p. (Series: Its: Sbornik, kniga 1) Errata slip inserted. 8,000 copies printed.

Sponsoring Agency: USSR. Gosudarstvennyy komitet po avtomatizatsii i mashinostroyeniyu.

Ed.: A. I. Zot'yev, Candidate of Technical Sciences; Ed. of Publishing House:
N. S. Stepanchenko; Tech. Ed.: T. F. Sokolova; Managing Ed. for Literature
on Heavy Machine Building (Mashgiz): S. Ya. Golovin, Engineer; Editorial Board:
G.P. Bol'shakov, Engineer; V. P. Vyatkin, Candidate of Technical Sciences;
N. N. Vasil'yev, Engineer; A. P. Yeremkin, Engineer; I. B. Matveyev, Candidate
by Technical Sciences; M. A. Mar'yanchik, Engineer; P. V. Novichkov, Engineer;
B. S. Perevozchikov, Engineer; S. A. Podrez, Engineer; L. V. Rubnenkova; V. N.
Ukhanov;
P. D. Chudakov, Candidate of Technical Sciences; and A. I. Zot'yev.

Card 1/10

Studies and Calculations of Forging (Cont.)

SOV/3718

PURPOSE: The book is intended for technical personnel and scientific workers in the metal-forming industry.

COVERAGE: This collection of 12 articles deals with current research on metalforming operations, the design and operation of press-forging machinery, and stress and force analyses in punching and blanking operations. No personalities are mentioned. References follow each article.

TABLE OF CONTENTS:

Podrez, S. A. [Engineer]. Optimum Values for the Energy Reserve of Flywheels, Angles of Mominal Pressures, and the Mumber of Strokes in Single-Action Crank-Driven Presses

The author discusses GOST standards (4862-49 and 7766-55) for improved crank length and number of strokes for single- and double-crank metal-forming presses. He presents an analysis of crank angles, flywheel stresses, and power reserves in flywheels. Formulas for computing desired values and empirical data suggested as standards are given.

Card 2/10

Studies and Calculations of Forging (Cont.)

SOV/3718

given. This method adlows for spring deformation in addition to the usual allowance for load displacement.

Chudakov, P. D. [Candidate of Technical Sciences]. Calculation of Cutting Force and Work and the Layout of Graphs in the Cutting of Sheet Metal in Dies

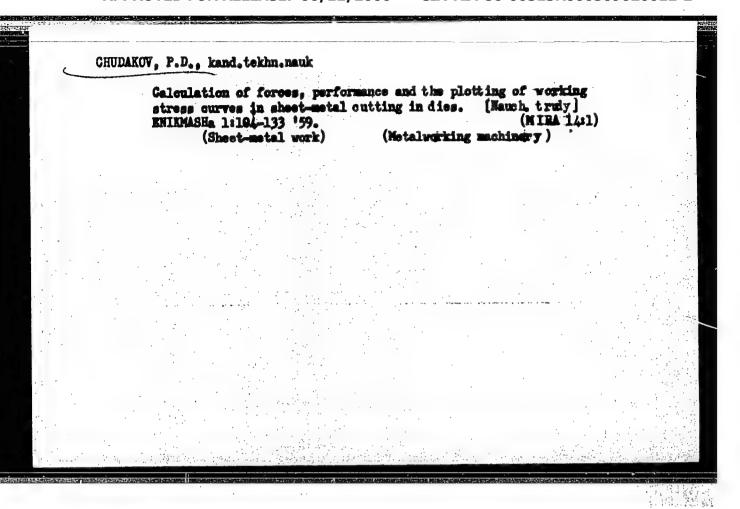
The article is an analysis of cutting operations performed on stamping dies. The analysis includes stress conditions, deformation (stress-strain) characteristics, and formulas for obtaining a reliable estimate of required forces for performing cutting operations. The coefficients for punch penetration, yield point, elongation, srea reduction, and tensile strength for some forty different types of metal sheets and plates are presented. The author endeavors to prove that force and power parameters in sheet-cutting operations can be established by two coefficients, tensile strength and reduction in area. New formulas are deduced to determine the force required for flat-end edges and beveled edges.

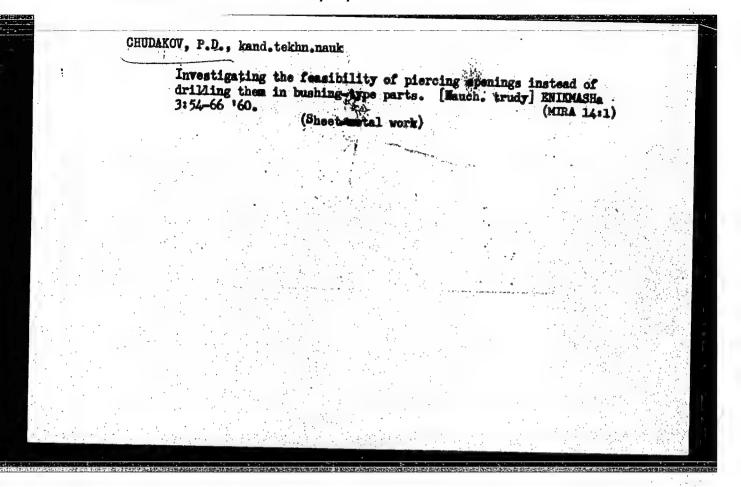
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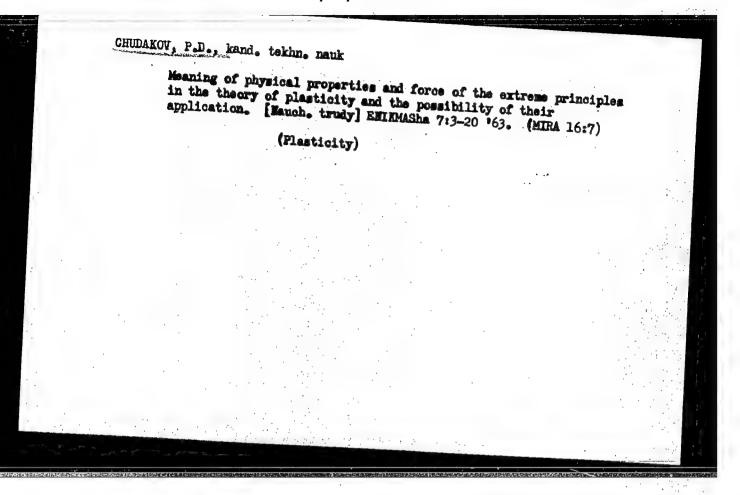
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At FifOR: Chudakov, P.D. (Candidate of technical sciences); Il'ich, V.D. (Engineer); Borovitchenko, A.A. (Engineer)

TITLE: A study of the processes of steel pressing in the semihot state

SOURCE: Moscow. Eksperimental'ny*y nauchno-issledovatel'skiy institut kuznechno-pressovojo mashinostroyeniya. Nauchny*ye trudy*, no. 8, 1964. Novoye v kuznechno-shtempovochnom proizvodstve (Latest developments in the forging industry). 91-99

TOPIC TAGS: steel pressing, hot pressing, cold pressing, steel forging, pressing lubricant, semiltot pressing

ABSTRACT: The authors briefly discuss cold and hot pressing of steels and conclude that in some cases it may be more economical to press semihot steel. The purpose of semihot pressing compared to cold pressing is to decrease the working pressure and to obtain , and whose accuracy and surface would be comparable to those ontained by cold pressing.

Some most pressing is a new and stell insufficiently indiest of the second pressing and insufficiently indiest of the second pressing.

obtained are discussed in this paper. A special machine for semihot pressing is described.

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A number of lubricants for semihot pressing were prepared and their effectiveness to steed; their composition is given. A table shows the dependence of the values of specific ressures employed for various steels on the temperature and the degree of deformation. Such of that a suitably chosen lubricant lowers the specific pressure interval investigated (923-1123K). In comparison with cold pressing, a covering of specific pressure by a factor of 2-4 was observed. It is noted that the accuracy of the dimensions of forgings obtained by semihot pressing is determined essentially for accuracy of the die and the pressing machine. When designing a pressing machine or semihot pressing, it is necessary to allow for temperature shrinkage, which is equal to 008. The microstructure of the forgings obtained by semihot pressing was examined to correctly series detected. The satisfactory results obtained make a continuation and stigation advisable to provide a basis for practical recommondations concerning semihot pressing in industry. Orig. art has: 6 figures and 1 tables

GIATION: Eksperimental'ny*y nauchno-issledovatel'skiy institut kuznechnoika savvogo mashinostroyeniya, Moscow (Experimental Scientific Research Institute of Forumg Machinery)

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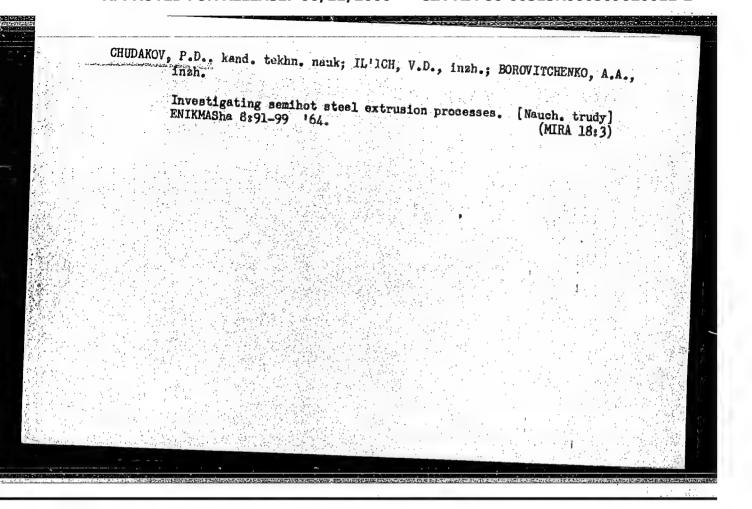
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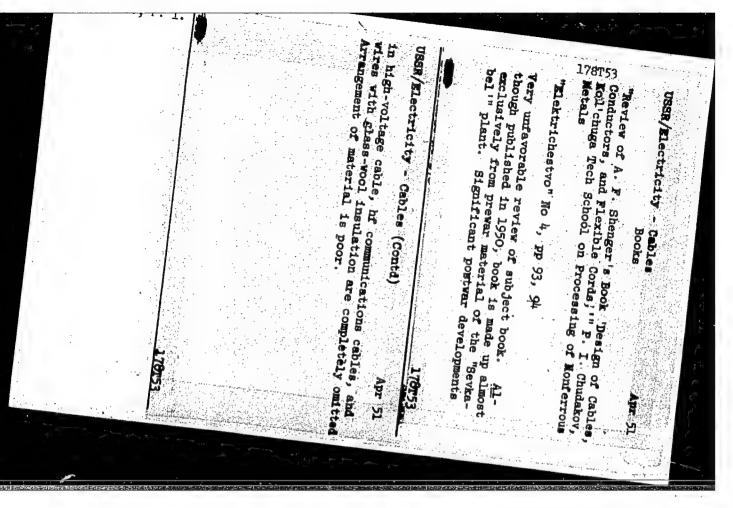
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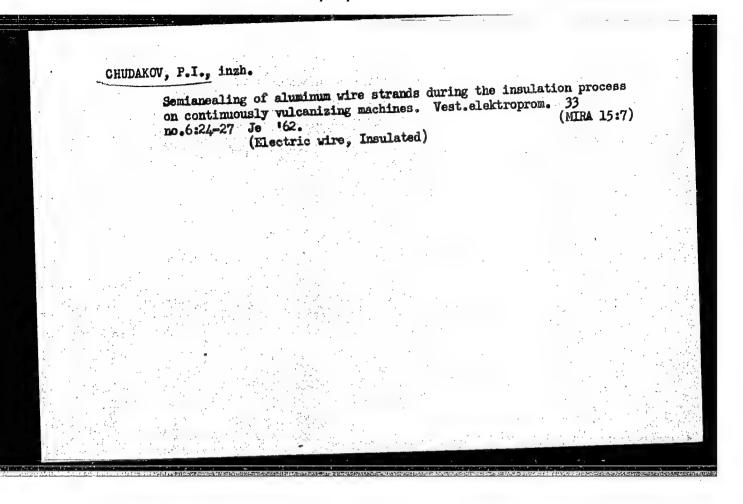
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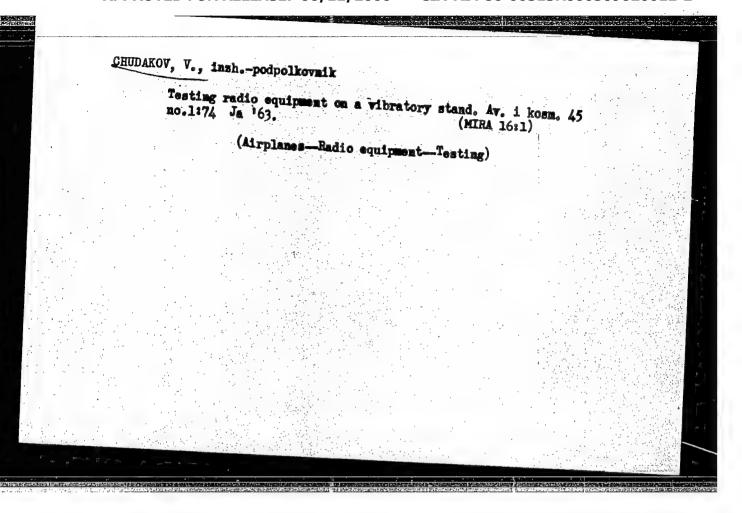


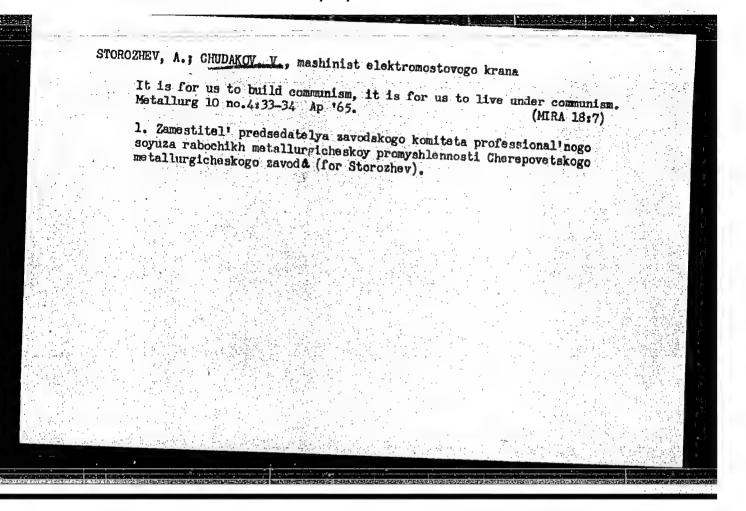
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SOROCHKIN, Naftaliy Khaimovich; CHUDAKOV, Pavel Ivanovich; SHARLE,
David Leonidovich; Prinimal uchastiye GAVRILYUK, V.V.;
ANTIK, I.V., red.; SOLOGUBOV, V.I., tekhn. red.

[Collection of problems on the calculation and design of cables and wires] Sbornik zadach po raschetu i konstruiro-vaniiu kabelei i provodov. Moskva, Gosenergoizdat, 1963. 95 p.





KONSTANTINOV, V.I.; SUTOVSKIY, S.M.; Prinimali uchastiye: MARTIROSOV, Zh.G.; RUVINOV, E.S.; GULIYEV, A.M.; KITUSHINA, I.A.; NIFONTOV, P.R.; CHUDAKOV, V.A.

Automatic measurement of chlorine concentration in anodic gas.
TSvet. met. 36 no.5:45-51 My '63. (MIRA 16:10)

1. Nauchno-issledovatel'skiy i proyektnyy institut "Neftekhimavtomat" (for Martirosov, Ruvinov, Guliyev, Kitushina).

LAZURENKO, S.R., inzh.; LAPINSKIY, Ye.I., inzh.; CHUDAKOV, V.D., inzh.

Analyzing the comparative studies of industrial tractors. Trakt. 1
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1. Chelyahinskiy traktornyy zavod.

ISAKOV, P.P.: SKARYTIN, L.I.; SHCHERBAKOV, V.A.; MAKARENKO, V.I.; BOL'SHUKHIN, V.S.; PIVNIK, M.M.; CHUDAKOV, V.D.; YAKOVLEV, G.S.;

[DET-250 diesel-electric tractor; its construction and operation] Dizel'-elektricheskii traktor DET-250; ustroistvo i ekspluatatsiia. Moskva, Mashinostroenie, 1965. 479 p. (MIRA 18:7)

CHUDAKOV, V. G.

Professor A. A. Smorodintsev, V. G. Chudakov, A. V. Churilov, Gemorragicheskiy nefroso-nefrit /Hemorrhagic Nephroso-Nephritis/, Medgiz, 8 sheets, 1913

The book elucidates the etiology, epidemiology, clinical practice, diagnosis, certain questions of the pathogenesis, and certain methods of therapy and prophylaxis of hemorrhangic nephroso-nephritis.

Intended for physicians and scientists studing virus diseases.

SO: U-6472, 23 Nov 1954

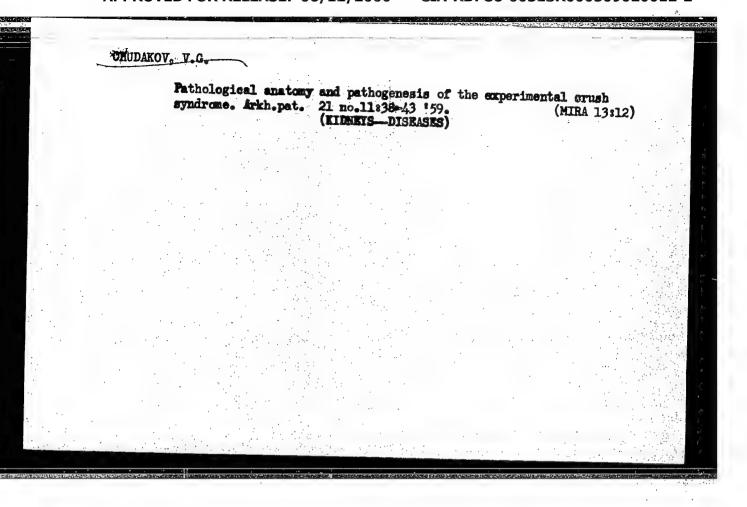
CHUDAKOY, V.G., prof.

Present status of the problem of the pathoenstomy and pathogenesis of hemorrhagic nephroso-nephritis (hemorrhagic fever with remains syndrome) [with summary in English]. Arkh.pat. 19 no.10:69-81 '57.

1. Is kafedry patologicheskoy anatomii (nachal'nik - prof. A.M. Chistovich) Voyenno-meditsinskoy ordena Jenina akademii imeni S.M.Kirova.

(RPIDEMIC HEMORRHAGIC FRVER, pathology.

review (Rus))



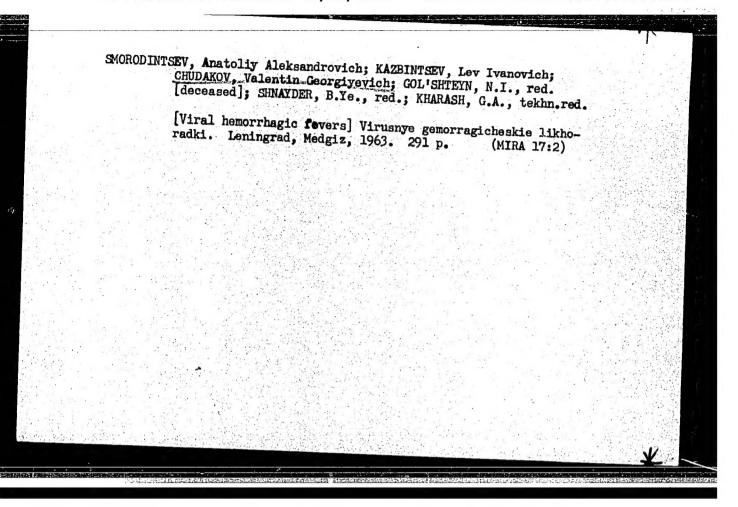
D'YACHENKO, P.K.; KATAYEVA, G.A.; POMOSOV, D.V.; RYAZHKIN, G.A.; STENGANTSEV, V.I.; FOY, L.K.; CHUDAKOV, V.G.; YANCHUR, H.M.

Effectiveness of neuroplegic substances and hypothermia in the prevention and treatment of traumatic shock in irradiated animals. Voen.-med. zhur. no.7:86 J1 '61. (MIRA 15:1) (AUTONOMIC DRUGS) (HYPOTHERMIA) (SHOCK) (RADIATION SICKNESS)

CHISTOVICH, Aleksoy Nikoleyevioh; CHUDAKOV, V.G., red.; CHUNAYEVA,
Z.V., tekhn. red.

[Pathological anatomy and the pathogenesis of tuberculosis; essays]Patologicheskaia anatomia i patogenez tuberkuleza; ocherki, Leningrad, Medgiz, 1961. 119 p. (MIRA 15:10)

(TUBERCULOSIS)



Chudakov Vim

S/166/60/000/03/03/011 0111/0222

AUTHORS: Azimov, S.A., Corresponding Member of the AS Uz SSR, Chernov, G.M., and Chudakov, V.M.

TITLE: On the Investigation of the Angular Distribution of Shower Particles in Nuclear Interactions

PERIODICAL: Izvestiya Akademii nauk Uzbekskoy SSR, Seriya fiziko-matematicheskikh nauk, 1960, No. 3, pp. 16 - 23

TEXT: The authors join the results of (Ref. 1,2,3). Let cB be the velocity of the system of the mass center, cB* be the velocity of the particle in

this reference system, let $m = \frac{8c}{8}$. The paper contains a theoretical in-

vestigation of the angular distribution of the shower particles for different m / 1. It is assumed that there exists a reference system with a symmetrical angular distribution of the shower particles with respect to the angle $\theta^* = \frac{\pi}{2}$ (S - system). The system of the laboratory is called L - system.

On the Investigation of the Angular Distribution S/166/60/000/03/03/011 of Shower Particles in Nuclear Interactions

It is stated that the deviation of the number m from the value 1 for not too large energies leads to an appearant asymmetry of the angular distribution

with respect to the angle $\frac{\kappa}{2}$ in an arbitrary reference system. At the other hand, here the anisotropy of the angular distribution in the S-system and the mean value m can be estimated if the weak dependence of the characteristics of the angular distribution of m in the domain of small angles 0 in the L - system is used. Different methods for the estimation of \overline{m} have to lead to the same results and simultaneously show whether $\overline{m} > 1$ or $\overline{m} < 1$. In the contrary case it can be concluded that there does not exist a reference system with an angular distribution symmetrical with respect to $\frac{\pi}{Z}$. There

are 5 figures and 7 references: 6 Soviet and 1 American.

ASSOCIATION: Fiziko-Tekhnicheskiy institut AN Uz SSR (Physical-Technical Institute AS Uz SSR)

SUBMITTED: February 2, 1960

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